Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A system for optimizing cooling air supply pressure comprising:

a high pressure fluid source;

means for supplying fluid from said high pressure fluid source to a ~~point of use~~ plenum at a pressure sufficient to maintain a required cooling airflow and backflow margin at the ~~point of use~~ plenum; and

said fluid supplying means further comprising means for reducing leakage of said fluid between said high pressure source and said ~~point of use~~ plenum;

said leakage reducing means comprising a cavity intermediate said high pressure fluid source and said plenum;

said leakage reducing means further comprising a nozzle having an outlet which supplies said fluid to said cavity and an ejector having an inlet aligned with said outlet; and

said plenum receiving said fluid from said ejector and distributing said fluid to a seal assembly.

2. (currently amended) A system according to claim ~~1~~ 6, wherein said means for reducing leakage comprises at least one nozzle communicating with said high pressure fluid source and at least

one ejector sized to deliver said fluid to said point of use at said pressure sufficient to maintain said required cooling airflow and backflow margin.

3. (currently amended) A system ~~according to claim 2, further~~ for optimizing cooling air supply pressure comprising:

a high pressure fluid source;

means for supplying fluid to a point of use at a pressure sufficient to maintain a required cooling airflow and backflow margin at the point of use;

said fluid supplying means further comprising means for reducing leakage of said fluid between said high pressure source and said point of use;

said means for reducing leakage comprising at least one nozzle communicating with said high pressure fluid source and at least one ejector sized to deliver said fluid to said point of use at said pressure sufficient to maintain said required cooling airflow and backflow margin; and

a plurality of ejectors and a plurality of nozzles with each of said nozzles being aligned with one of said ejectors.

4. (original) A system according to claim 2, further comprising a cavity between said high pressure fluid source and said point of use, said cavity containing said fluid at a pressure lower than said pressure in said high pressure fluid source, and said fluid in said cavity being drawn into an inlet of said at least

one ejector, thereby reducing said leakage between said high pressure fluid source and said point of use.

5. (currently amended) A system according to claim 1, wherein said ~~point of use comprises a plenum and~~ seal assembly comprises a blade outer air seal assembly.

6. (currently amended) A system ~~according to claim 5,~~ for optimizing cooling air supply pressure comprising:

a high pressure fluid source;

means for supplying fluid to a point of use at a pressure sufficient to maintain a required cooling airflow and backflow margin at the point of use;

said fluid supplying means further comprising means for reducing leakage of said fluid between said high pressure source and said point of use;

said point of use comprising a plenum and a seal assembly; and

wherein said ~~blade outer air~~ seal assembly has a plurality of holes which receives air from said plenum and delivers said air to a surface of an air seal adjacent a turbine blade.

7. (original) A system according to claim 1, wherein said high pressure fluid source comprises a chamber which receives bleed air from a high pressure compressor at the pressure at an exit of said high pressure compressor.

8 - 11. (cancelled)

12. (new) The system according to claim 6, wherein said seal assembly is a blade outer air seal assembly.